

Title (en)

Porous film or sheet, battery separator and lithium battery

Title (de)

Poröse(r) Film oder Folie, Batterie-Separator und Lithium-Batterie

Title (fr)

Feuille ou pellicule poreuse, séparateur de batterie, et batterie au lithium

Publication

EP 0603500 B1 19980909 (EN)

Application

EP 93117406 A 19931027

Priority

- JP 10961993 A 19930511
- JP 34065992 A 19921221

Abstract (en)

[origin: EP0603500A1] Disclosed herein a porous film or sheet comprising a resin composition composed mainly of an ultra-high molecular weight polyethylene having a viscosity-average molecular weight of not less than 500,000, and having a thickness of 10 to 100 μm , an air permeability of 20 to 2,000 $\text{sec}/100\text{ cc}$, a porosity of 15 to 80%, a pin puncture strength (per 25 μm of film thickness) of not less than 120 g, a thermal-shut down temperature of 90 to 150 DEG C and a heat puncture temperature of not less than 160 DEG C, and a process for producing the same.

IPC 1-7

C08J 9/28; C08J 9/26; H01M 2/16; B29C 55/02

IPC 8 full level

B29C 55/00 (2006.01); **C08J 9/28** (2006.01); **C08L 23/06** (2006.01); **H01M 50/417** (2021.01); **H01M 50/489** (2021.01); **H01M 50/491** (2021.01)

CPC (source: EP US)

B29C 48/08 (2019.01 - EP US); **B29C 48/832** (2019.01 - EP US); **B29C 48/91** (2019.01 - EP US); **B29C 55/00** (2013.01 - EP US); **B29C 55/005** (2013.01 - EP US); **C08J 5/18** (2013.01 - EP US); **C08J 9/28** (2013.01 - EP US); **C08L 23/06** (2013.01 - EP US); **H01M 50/417** (2021.01 - EP US); **H01M 50/489** (2021.01 - EP US); **H01M 50/491** (2021.01 - EP US); **B29K 2023/0683** (2013.01 - EP US); **B29K 2105/0038** (2013.01 - EP US); **B29K 2105/04** (2013.01 - EP US); **C08J 2201/0543** (2013.01 - EP US); **C08J 2201/0546** (2013.01 - EP US); **C08J 2323/02** (2013.01 - EP US); **C08J 2323/06** (2013.01 - EP US); **H01M 2300/0025** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Cited by

FR2858634A1; FR2716295A1; EP1146577A1; SG99893A1; EP0947545A4; CN100448922C; CN1127774C; EP2259369A1; EP1101792A4; US5759678A; EP0767200A3; KR100780523B1; EP1497364A4; EP1679338A4; EP1614710A4; US6713217B2; US6749961B1; US8962127B2; US7700025B2; WO9742676A1; WO0049669A3; WO0009597A1; EP1022798B1; US6524742B1; US8758887B2; EP1022798A2

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DOCDB simple family (application)

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